

**Remarks**

Claims 31-32, 70, and 73-75 have been cancelled. Claims 30, 33, 68, 69, and 71 have been amended leaving claims 30, 33-34, 68-69, 71-72, and 76 pending in the application.

The drawings had been objected to for failing to show every feature of the invention specified in the claims. Specifically, the Examiner believes the electrode components having surfaces opposed to each other; stainless steel mesh; and second set of components; are not shown. Applicant requests this objection be withdrawn for at least the reason these features are either shown in the drawings or sufficiently enabled from the specification.

For example, with reference to Figs. 2-5 of the originally filed drawings in light of pages 5-6 of the originally filed specification, "As shown in Fig. 3, a cross section of Paul ion trap 30 (e.g., hyperbolic cross-section) shows ring electrode 32 and end caps 34. In this cross-section, ring electrode 32 can be characterized as a set of components and end caps 34 can be characterized as a set of components." Further, the specification makes reference to the drawings as follows: "Electrodes 54 can be flat and made of a solid material having an aperture 56 therein. Stainless steel is an exemplary solid material while other materials including non-conductive materials are contemplated. Aperture 56 may be centrally located. Electrodes 54 can include multiple apertures 56. Individual electrodes 54 may also be constructed either partially or wholly of a mesh. An exemplary cross-section of CIT 50 is shown in Fig. 5." Because the drawings depict the components and specification gives examples of the

components recited in the claims, the drawings are proper and the objection to the drawings should be withdrawn.

The previously pending claims have also be rejected as failing to comply with the written description requirement of 35 U.S.C. § 112, first paragraph. More specifically, the Examiner believes that the specification is silent with respect to terms recited in the claims. This rejection must be withdrawn for at least the reason that the pending claims are fully supported by the specification.

For example, the recitation of sets of components can be found on pages 5-6 and illustrated in Figs. 2-5. With reference to Fig. 3, and in accordance with an example embodiment of the disclosure, "in this cross-section, ring electrode 32 can be characterized as a set of components and end caps 34 can be characterized as a set of components." With reference to Fig. 5, and in accordance with another example embodiment of the disclosure, "In this cross-section ring electrode 52 can be characterized as a set of components and end caps 54 can be characterized as a set of components, each having surfaces 58 and 60 respectively. In an implementation, surfaces 58 oppose each other and surfaces 60 oppose each other." The specification and drawings continue by giving numerous examples of how the claimed separator can be operated.

In light of these and numerous other details given in the originally filed specification and drawings, it would be neither fair nor reasonable to believe that the inventor(s) did not have possession of the claimed invention at the time the invention was filed. For at least the reason that the originally filed disclosure fully supports the pending claims, the rejection under 35 U.S.C. § 112 must be withdrawn.

The Examiner has indicated that claim 75 would be allowable if rewritten to include all the limitations of the base claim and any intervening claims. Claim 30 has been amended to include all the limitations of claim 75 and any intervening claims. As amended, claim 30 is in condition for allowance.

Claims 33, 68, 69, and 71 have been amended for clerical reasons in light of the amendments to claim 30. No new matter has been added through these amendments.

Claims 33-34, 68-69, 71-72, and 76 depend from allowable claim 30 and are allowable for at the reasons given above regarding claim 30.

Claims 30, 33-34, 68-69, 71-72, and 76 are believed to be in condition for allowance. If the Examiner has an objection to any of these claims, the Examiner is requested to contact the undersigned at (509) 624-4276 between the hours of 8:00 a.m. and 5:00 p.m. (PST).

Respectfully submitted,

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By: 

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